

AMENDMENTS TO THE CLAIMS

This following listing of claims will replace all prior listings and versions thereof.

Claims 1-22. (cancelled)

Claim 23. (currently amended) A process for preparing a biological material for examination with a microscope, comprising the steps of:
applying a UV laser light absorbing transparent film onto a surface of the biological material ~~whereby a transparent film~~ for smoothing out irregularities on the surface of the biological material in order to improve visual characteristics of the biological material ~~is applied onto a surface of the biological material, whereby the film is a UV laser light absorbing film; and~~
cutting the biological material together with the UV laser light absorbing transparent film with a UV laser, thereby preparing the biological material for examination.

Claim 24. (previously presented) The process of claim 23 wherein the film is sprayed onto the surface of the biological material.

Claim 25. (previously presented) The process of claim 23 wherein the film is brushed onto the surface of the biological material.

Claim 26. (previously presented) The process of claim 23 wherein the film is applied onto the surface of the biological material by immersing the biological material in an immersion bath.

Claim 27. (previously presented) The process of claim 23 wherein the film is not toxic.

Claim 28. (previously presented) The process of claim 23 wherein the film is inert and when applied onto the biological material the biological material is not disadvantageously affected chemically or biologically.

Claim 29. (previously presented) The process of claim 23 wherein the film contains a transparent preparation, mixture and/or pure substance.

Claim 30. (currently amended) The process of claim ~~23~~ 29 wherein the preparation, mixture or pure substance is a preparation, mixture and/or pure substance selected from the group of short- or long-chain and/or totally or partly unsaturated acids and/or bases, poly-amides, -alcohols, - carbonates or silicones or mixtures thereof.

Claim 31. (previously presented) The process of claim 23 wherein the film when applied onto the surface of the biological material has a character promoting the visual characteristics of the biological material with regard to balance of the refractive index, suppression of undesirable light scattering and/or improved visualization of the biological specimen.

Claim-~~33~~ 32. (cancelled).

Claim-~~34~~ 33. (currently amended) The process of claim 23 wherein the film has a preparation, mixture and/or pure substance soluble in an aqueous solution.

Claim-~~35~~ 34. (currently amended) The process of claim 23 wherein the film contains at least one substance for systematically affecting the visual characteristics of the biological material when radiated with light.

Claim-~~36~~35. (currently amended) The process of claim-~~35~~34 wherein the film contains at least one substance preserving the RNA of the biological material when radiated with light.

Claim-~~37~~36. (currently amended) The process of claim-~~35~~34 wherein the film contains at least one substance systematically affecting the fluorescence visual characteristics of the biological material.

Claim-~~38~~37. (currently amended) The process of claim-~~37~~36 wherein the film contains a fluorophor for achieving a fluorescence with a certain light wavelength.

Claim-~~39~~38. (currently amended) The process of claim-~~37~~36 wherein the film contains at least one substance, which prevents fluorescence with a certain light wavelength.

Claim-~~40~~39. (currently amended) The process of claim-~~39~~38 wherein the substance is selected for prevention of fluorescence in such a manner that it prevents the fluorescence with the certain light wavelength by quenching in the sense of a Stern Vollmer analysis substantially more effectively with regard to bimolecular quenching than its self de-excitation permits with inherent uni-molecular kinetics.

Claim-~~44~~40. (currently amended) The process of claim 23 wherein the film has a preparation, mixture and/or pure substance dissolved in a solvent, which is carried on the surface of the biological material.

Claim-~~42~~41. (currently amended) The process of claim-~~44~~40 whereby the solvent, in which the preparation, mixture and/or pure substance is dissolved, is a solvent selected from the group of short-chain alcohols, ketones, esters, benzenes or water.

Claim-~~43~~ 42. (currently amended) The process of claim 23 wherein the film is constituted in such a manner that after solidification in air it facilitates cutting and/or a catapulting of the film as well as of the biological material present underneath with a laser beam.

Claim-~~44~~ 43. (withdrawn – currently amended) Arrangement with carrier means and a biological material present on the carrier means, wherein a transparent film is applied onto the surface of the biological material for smoothing out irregularities in the surface of the biological material in order to improve the visual characteristics of the biological material for examination with a microscope, and whereby the film is a UV laser light absorbing film.

Claim-~~45~~ 44. (withdrawn – currently amended) A system comprising a carrier and a biological material present on the carrier, wherein a transparent film is applied onto the surface of the biological material for smoothing out irregularities in the surface of the biological material in order to improve the visual characteristics of the biological material for examination with a microscope, and the film is a UV laser light absorbing film.